



TOWN OF UXBRIDGE
WWTF BUILDING COMMITTEE
UXBRIDGE, MASSACHUSETTS 01569

Chairman Dale Bangma
Vice Chair Joe Marchand
Eugene O'Rourke
Dan Hicks
William Kessler

Benn Sherman (Ad hoc)
Jim Legg (Ad hoc)

MEETING MINUTES

MEETING DATE: November 14, 2018
MEETING LOCATION: Lower Town Hall Meeting Room, 21 South Main Street

COMMITTEE MEMBERS PRESENT:

Joe Marchand
Dan Hicks
Eugene O'Rourke
William Kessler

DEC 19 '18 PM 6:48

OTHERS IN ATTENDANCE:

Benn Sherman	Director of Public Works
Jim Legg	Wastewater Operations Supervisor
Sandy Tripp	Project Designer (GHD)
Paul Macnevin	OPM (Weston & Sampson Engineers)
Frank Woodfall	Resident Project Representative (Keville)

Received by
Uxbridge
Town Clerk

I. CALL TO ORDER

It being 5:00 p.m., the meeting being properly posted, duly called and a quorum being present, the Vice Chair, Joe Marchand, called the meeting to order.

II. OLD BUSINESS

None

III. NEW BUSINESS

A. Citizens Comments

None

B. Acceptance of Meeting Minutes

Passover

C. Project Update

Paul Macnevin (OPM) distributed the OPM status report to the Committee. This report includes the month of November.

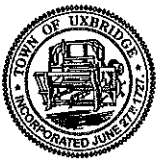
West River Pump Station (WRPS): Mr. Macnevin explained there was no activity this past month. The contractor is working on the revised sheeting and dewatering plan for the preferred plant going forward.

Wastewater Treatment Facility (WWTF): Mr. Macnevin reviewed the progress outlined in the OPM report. Refer to attached OPM report for specific/notable work activities.

The contractor and engineer continue to submit and review submittals associated with the current work. A major item anticipated is the Ultraviolet (UV) system.

D. Schedule Update

Mr. Macnevin updated the committee on the WWTF schedule. Refer to the OPM report for the updated project schedule.



There appears to be areas where the contractor can make up float on the project. Bill Kessler noted the schedule summary dates appear to be incorrect. The project team will review and update accordingly. Mr. Kessler requested an alternate schedule presentation. The project team will provide a work breakdown structure schedule.

Joe Marchand asked if we anticipate any weather related issues going forward. Frank Woodfall explained the remaining buildings will be made weather tight for the winter. The contractor is continuing efforts to push forward with building work in order to have additional work areas for the winter period. Equipment will be installed on the coming months. Jim Legg added there have not been any issues with the ongoing operation of the plant during construction.

Bill Kessler asked if the various building activities were planned for the winter period and will the Town be subject to a change order due to winter conditions. Frank Woodfall explained these activities were planned during this time and there will be no need for a change order due to winter conditions.

E. Change Order Update

No change order this month associated with the WWTF.

On the WRPS, Bill Kessler asked if the project team has determined the potential exposure to the Town. Sandy Tripp noted we are meeting the contractor following the committee meeting. We have received two proposed change orders that were extremely high. One did not apply and the other was associated with the preferred direction for installing the pump station. The project team provided written responses to the contractor. We have also asked for the potential cost impacts but anticipate something for next month.

Joe Marchand asked if there are any issues with putting the new station in the existing location. Benn Sherman noted the existing location affords the Town with the least amount of risk. There will be risk with bypass pumping and not interfering with DPW Highway operations. The contractor has not provided a detailed cost breakdown at this time.

Benn Sherman explained the frequency the project team reviews and discuss long range change order management of the proposed change order log. We are grouping both projects together in our contingency management.

Joe Marchand asked if there are any issues with the Town completing any of the financial processes. Benn Sherman noted the project team is processing payment requisitions in a timely fashion and reimbursements are submitted to the Water Pollution Abatement Trust (WPAT). The only issue experienced was related to the interim period where there was no Treasurer to sign checks. This has been rectified with the appointment of the Interim Treasurer. Bill Kessler asked if there were any issues relative to the Town's ability to borrow given the issues faced by the Town. The project team will confer with the WPAT and update the building committee in December.

F. Budget Update

Mr. Macnevin provided an update on the total project accounting. Refer to the OPM report for the details on each phase. Mr. Sherman handed out the project level budget summary to the committee for reference.

IV. MEMBER COMMENTS

None



V. ADJOURNMENT

Motion by Eugene O'Rourke, seconded by Bill Kessler to adjourn the meeting at 5:36 p.m. **Motion carried 4-0-0.**

Minutes respectfully submitted by Benn Sherman.

Minutes approved by WWTF Building Committee

Date Approved: 12/19/2019

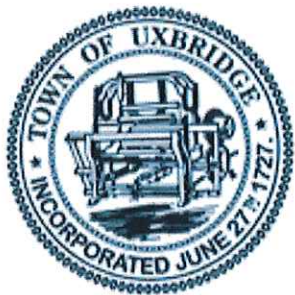
Dale Bangma, Chairman

Joe Marchand
Joe Marchand, Vice Chairman

Dan Hicks
Dan Hicks

William Kessler

Eugene O'Rourke
Eugene O'Rourke



Monthly OPM Project Updates

November 2018

2016-04 West River Pump Station Replacement

Progress:

Last Month –The path forward with the least amount of risk (therefore anticipated to be most the most cost-effective) was previously determined to be installing the new PS and wetwell in the existing PS and wetwell locations. A meeting was held with the engineer and the contractor on October 1st and a work directive (with an additional cost) was subsequently issued to perform rock coring in the four corners of the existing PS to determine extent of obstructions. This effort was completed on 10/17/18 and WM Schultz coordinated with their support of excavation contractor to determine if sheeting can be installed and dewatering accomplished based on the results. The PS is continuing to be stored on-site.



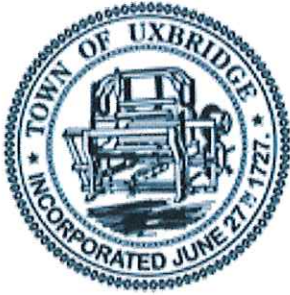
This effort was completed on 10/17/18 and WM Schultz coordinated with their support of excavation contractor to determine if sheeting can be installed and dewatering accomplished based on the results. The PS is continuing to be stored on-site.

This Month – A meeting was held with the engineer and the contractor on October 24th to review the results of the 10/15- 10/17/18 rock coring effort (in the four corners of the existing PS to determine extent of obstructions). GHD has advised that the results of the investigation support installing the new PS in the location of the existing PS as the most cost-effective path forward. WM Schultz is currently working with their support of excavation contractor and their dewatering contractor to assemble revised submittals and costs for the changed location.

Schedule: **Estimated Project Completion Date:** November 30, 2018 (will be revised after path forward is determined)

Financial:	GHD Budget:	\$140,000	Invoiced: \$88,495	% Complete: 63.2%
	Contractor:	\$1,643,549*	Invoiced: \$484,649	% Complete: 29.5%

**Adjusted for Change Order No. 1 & Change Order No. 2*

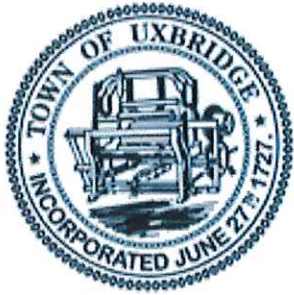


- Submittal Status: Approximately 80% of submittals have been received and have been or are being reviewed.
- Action Items: Continue to work with WM Schultz to confirm the additional cost and revised schedule of the path forward for PS installation. Review cost implications of work revisions with the team for continued contingency management.
- Current Status: WM Schultz will provide updated information and GHD will review and negotiate additional costs and discuss with the Town before proceeding with implementation.

2016-05 Wastewater Treatment Facility BNR & Infrastructure Upgrade

Progress: **Last Month** – DOC submitted shop drawings, continued to procure equipment/materials, and continued work in the following areas: site work for entrance area (paving prep & fence install), piping and secondary electrical feeds site-wide, new Septage Receiving equipment, new Preliminary Treatment equipment installation, Grit Tank improvements, new Garage, Preliminary Treatment equipment replacement, new Gravity Thickener #2, new SC #4, new equipment installation for SC #1, the Process Building, the Admin Building, Aeration basin expansions and distribution box, Aeration Basin #1, the new Filter Building, the new Chemical Building, Sludge Pump Station, and the Blower Building. A construction meeting was held on October 11, 2018.

This Month – DOC continues to submit shop drawings, to procure equipment/materials, continued electrical feed installation, site fencing installation and prep for paving of entrance area, installing rough HVAC, electrical & plumbing for the Septage Receiving area, rough electrical and plumbing and gates in Preliminary Treatment, electrical, plumbing and HVAC in the new Garage, Gravity Thickener #2 equipment installation, coatings & equipment installation in Primary Settling basins, clear water testing for SC #1 and new SC #4, HVAC work in the Process Building, installation of walls in the Admin Building, complete installation of walkways for Aeration basin expansions, place walls of Aeration Distribution Box, installation of Aeration basin #1 equipment, continue masonry walls for the new Filter Building and the new Chemical Building, begin rough electrical, remove and replace roof and access hatch and continue rough electrical & MCC install for the Sludge Pump Station and continue electrical & HVAC in Blower Building. Photos below show a side-by-side comparison of the progress of construction from last month to this month and some additional photos of other work areas.



The Contractor's 13th payment application was processed for \$1,934,340.31. The next monthly construction meeting date was revised and will be held on November 15, 2018.

GHD continues to review and comment on submittals and RFI's received, reviews payment applications, reviews and recommends change orders and continues to provide full-time construction inspection.

New Garage (front) 10/2018



New Garage (interior HVAC) 11/2018

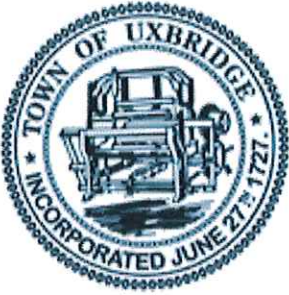


New Septage Receiving 10/2018



New Septage Receiving (west end) 11/2018





New Preliminary Treatment (int) 10/2018



New Preliminary Treatment (int) 11/2018



Aeration Tank Expansions Catwalk Forms 10/2018



Aeration Tank Expansion Catwalks Poured 11/2018



New Chemical & Filter Building Walls 10/2018



New Chemical & Filter Building Masonry 11/2018





New Secondary Clarifier #4 10/2018



New Secondary Clarifier #4 11/2018



New Aeration Splitter Box Base Slab 10/2018



New Aeration Splitter Box Wall Forms 11/2018

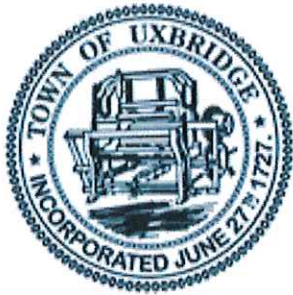


Entrance Road Prep for Paving 11//2018



Utility/Pipe Gallery Tunnel New Access 11/2018





Admin Building New Training Room 11/2018



Admin Building New Chemical Metering 11/2018



Schedule: **Estimated Project Completion Date:** February 21, 2020

Key Milestone Completion Dates: based on DOC 10/01/18 Progress Schedule

Activity	Start by Date in Progress Schedule	Start Date in Baseline Schedule	Finish by Date	Early (E), Late (L) or Actual (A) Date *
Preliminary Treatment Building:	09/25/2017A	10/02/2017	07/01/2019	E
Septage Receiving Building:	10/03/2017A	09/25/2017	04/08/2019	E
Sludge Thickener No. 2:	10/16/2017A	11/09/2017	07/23/2019	E
Site Electrical:	10/17/2017A	10/17/2017	06/11/2019	E
Secondary Clarifier No. 4	10/31/2017A	08/30/2017	07/16/2019	E
Yard Piping	11/28/2017A	07/11/2018	10/02/2019	E
Process/Admin Building with Finishes	12/19/2017A	02/28/2018	01/02/2020	E
Process Bldg. Blower Room:	01/23/2018A	02/12/2019	11/22/2019	E
Filter Building	02/07/2018A	07/20/2018	10/10/2019	E
Garage	03/12/2018A	04/16/2019	05/15/2019	E
Chemical Building	03/14/2018A	03/23/2018	11/19/2019	E
Sludge Pumping Station	03/20/2018A	04/15/2019	08/02/2019	E



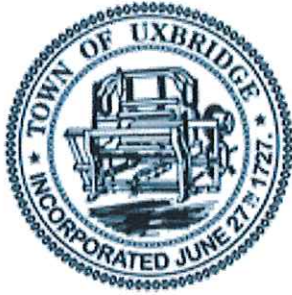
Activity	Start by Date in Progress Schedule	Start Date in Baseline Schedule	Finish by Date	Early (E), Late (L) or Actual (A) Date *
Aeration Basins Nos. 1-3 Extension	03/27/2018A	02/09/2018	12/27/2019	E
Main Pump Station	04/25/2018A	04/26/2019	08/26/2019	E
Blower Building	06/25/2018A	08/15/2018	01/30/2019	E
Utility Tunnel Access No. 2	06/26/2018A	06/28/2019	08/06/2019	E
Secondary Clarifier Nos. 1-3 Upgrade	07/02/2018A	10/09/2018	10/01/2019	E
Primary Settling Basins	07/16/2018A	02/15/2019	11/12/2019	E
Primary Settling D-Box	07/17/2018A	02/15/2019	11/02/2018	E
Utility Tunnel	10/01/2018	11/28/2018	04/05/2019	E
Aeration Basin Distribution Box	10/12/2018	07/02/2018	02/06/2019	E
UV & Post Aeration	10/22/2018	12/21/2018	12/05/2019	L
Sludge Thickener #1	03/29/2019	07/15/2019	7/23/2019	L
Sludge Holding Tank:	7/23/2019	11/06/2019	08/08/2019	L
Testing & Startup	01/22/2019	11/23/2019	01/17/2020	L
* Two sets of dates are provided in the Baseline Schedule by DOC, Early Start/Finish and Late Start/Finish. For work items that have commenced (shown in Bold), the Early Start/Finish Dates are included above and for work items that have yet to commence, the Late Start/Finish Dates are included above for conservatism.				

Financial: OPM Budget: \$500,000 Invoiced: \$ 197,869 % Complete: 39.6%
 GHD Budget: \$4,150,000 Invoiced: \$1,774,116 % Complete: 42.7%
 DOC Budget: \$35,126,379** Invoiced: \$16,305,728 % Complete: 46.4%

** Adjusted for Change Order Nos. 1, 2, 3, 4 & 5 (DOC)

Submittal Status: Approximately 83% of submittals have been received and have been or are being reviewed.

Action Items: Continue to work with DOC to track strategies that have been implemented to restore float in the schedule (currently at -12 days overall (Admin Bldg), but positive for most of the



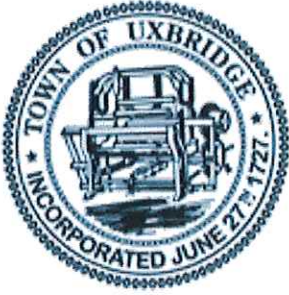
various process paths) and continue construction progress at the increased rate. Continue to process submittals, process payment requisitions and continue to evaluate potential change orders. The next SRF reimbursement request package will be submitted to DEP early next week.

Current Status: DOC will continue submittals (especially the UV system), procurement of equipment and materials and continue to maintain an increased labor presence on-site, as more work areas continue to be made available for concurrent work activities.

2016-04 & 2016-05 Project Contingency Management/ Change Order Summary

Based on discussions at prior Building Committee meetings, below is a summary for the contingency on the combined projects (WWTF & WR PS), amounts that have been allocated to Approved Change Orders and amounts that are likely to be considered in the future for identified Potential Change Order items.

Project Item	Item Amount	Cumulative Total
Project Original Contingency ^a		\$2,300,000.00
WR PS Change Order No. 1 (8/9/17)	\$78,900.00	\$2,221,100.00
WR PS Change Order No. 2 (8/9/17)	\$5,213.00	\$2,215,887.00
WR PS Change Order No. 3 (10/18)	\$27,209.00	\$2,188,678.00
WR PS Potential Change Orders ^b	\$60,000	
WWTF Change Order No.1 (3/6/18)	\$60,283.00	\$2,128,395.00
WWTF Change Order No. 2 (6/21/18)	\$126,050.00	\$2,002,345.00
WWTF Change Order No. 3 (8/15/18)	\$90,655.00	\$1,911,690.00
WWTF Change Order No. 4 (9/19/18)	\$56,443.00	\$1,855,247.00
WWTF Change Order No. 5 (10/18)	\$188,022.00	\$1,667,225.00
WWTF Potential Change Orders ^b	\$205,000.00	



Utility Work (Eversource)	\$122,323.92	\$1,544,901.08
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^a Contingency includes original budget (\$2,050,000) plus additional services budget in GHD contract (\$250,000).

^b Potential Change Orders (PCOs) are in various stages of review and negotiation. For the WR PS, this amount is more significant than included above, however we would like to discuss next meeting to preserve negotiations with the contractor. This value is provided based on estimated potential costs identified to date and will be updated monthly.

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TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS
147 HECLA STREET
UXBRIDGE, MASSACHUSETTS 01569-1326
508-278-8616 ♦ Fax 508-278-3179

Benn Sherman, P.E.
Director

WWTF & WEST RIVER PUMP STATION BUDGET & REIMBURSEMENT SUMMARY

PURPOSE: WWTF & WRPS Construction
SOURCE: SRF 0%, SRF 2%, Local Borrowing
TM DATE: 4/2/2016 (Article 1)
TM APPROPRIATION: \$44,800,000.00

SRF Portion Eligible for 0% Interest Rate \$ 29,200,000.00
SRF Portion Eligible for 2% Interest Rate \$ 13,600,000.00
Total SRF Approval \$ 42,800,000.00

TOTAL AUTHORIZATION: \$44,800,000.00

ACCOUNT NUMBER	CONTRACTS	APPROVED	ORIGINAL BUDGET	CONTRACT/ PO AMOUNT	APPROVED CHANGE ORDERS	ADJUSTED CONTRACT	EXPENSE TO DATE	BALANCE REMAINING	% CMPLT	STATUS
41-440-2050-4106PW15-0000-0-0	WRPS RETAINAGE ¹	06/26/17					\$ 25,507.85			
41-440-2050-4106PW16-0000-0-0	WWTF RETAINAGE ¹	06/26/17					\$ 858,196.25			
41-440-5303-4106PW16-0000-0-0	LEGAL ¹	07/01/17	\$ 45,638.00	\$ 45,638.00	\$ -	\$ 45,638.00	\$ -	\$ 45,638.00	0.0%	Active
41-440-5880-4106PW16-0000-0-0	WWTF FINAL DESIGN²	07/01/16	\$ 1,500,000.00	\$ 1,500,000.00	\$ -	\$ 1,500,000.00	\$ 1,500,000.00	\$ -	100.0%	Closed
41-440-5892-4106PW16-0000-0-0	OWNER'S PROJECT MANAGER ²	02/07/17	\$ 500,000.00	\$ 500,000.00	\$ -	\$ 500,000.00	\$ 197,870.61	\$ 302,129.39	39.6%	Active
41-440-5893-4106PW16-0000-0-0	WWTF CPS (GHD) ^{1,3}	11/09/16	\$ 4,400,000.00	\$ 4,150,000.00	\$ -	\$ 4,150,000.00	\$ 1,774,116.74	\$ 2,375,883.26	42.7%	Active
41-440-5893-4106PW16-9100-0-0	WRPS CPS (GHD) ¹	11/09/16	\$ 140,000.00	\$ 140,000.00	\$ -	\$ 140,000.00	\$ 88,495.80	\$ 51,504.20	63.2%	Active
41-440-5894-4106PW16-0000-0-0	WWTF CONSTRUCTION (DOC) ¹	06/26/17	\$ 34,604,926.00	\$ 34,604,926.00	\$ 521,453.00	\$ 35,126,379.00	\$ 16,305,728.74	\$ 18,820,650.26	47.1%	Active
41-440-5894-4106PW16-9100-0-0	WRPS CONSTRUCTION (WMS) ¹	06/26/17	\$ 1,559,436.00	\$ 1,559,436.00	\$ 111,322.00	\$ 1,670,758.00	\$ 484,649.15	\$ 1,186,108.85	31.1%	Active
41-440-5897-4106PW16-0000-0-0	CONTINGENCY ^{1,3}	07/01/17	\$ 2,050,000.00	\$ 2,300,000.00	\$ (632,775.00)	\$ 1,667,225.00	\$ 122,323.92	\$ 1,544,901.08	32.8%	Active
TOTAL COMMITTED			\$ 44,800,000.00	\$ 44,800,000.00	\$ -	\$ 44,800,000.00	\$ 21,356,889.06	\$ 23,443,110.94	47.7%	

¹ Included in the SRF funding request and authorization

² Included in the independent borrowing for final design and OPM services

³ GHD additional services for WWTF were put into the contingency line

REIMBURSEMENT SUMMARY

ACCOUNT NUMBER	REIMBURSIBLE ITEMS	ELIGIBLE COSTS ⁴	UNPAID AMOUNT	Loan 16-26 2%	Loan 16-26A U%	Fed. Grant (26B) U%	INITIAL SUBMITTED	TOTAL REIMBURSED
41-440-4680-4106PW16	WRPS CONSTRUCTION (WMS)	\$ 1,637,408.00	\$ 1,670,758.00	\$ 484,649.15	\$ -	\$ -	\$ 484,649.15	\$ 484,649.00
41-440-4680-4106PW16	WWTF CONSTRUCTION (DOC)	\$ 36,335,172.00	\$ 35,126,379.00	\$ 4,023,988.69	\$ 10,347,399.72	\$ -	\$ 14,371,388.41	\$ 12,407,136.00
41-440-4680-4106PW16	WWTF CPS (GHD)	\$ 4,400,000.00	\$ 4,150,000.00	\$ -	\$ -	\$ 1,673,409.66	\$ 1,673,409.66	\$ 1,555,980.00
41-440-4680-4106PW16	WRPS CPS (GHD)	\$ 140,000.00	\$ 140,000.00	\$ 82,727.20	\$ -	\$ -	\$ 82,727.20	\$ 79,716.00
41-440-4680-4106PW16	UTILITY WORK	\$ 287,420.00	\$ 287,420.00	\$ 122,324.92	\$ -	\$ -	\$ 122,324.92	\$ 122,325.00
TOTAL		\$ 42,800,000.00	\$ 41,374,557.00	\$ 4,713,689.96	\$ 10,347,399.72	\$ 1,673,409.66	\$ 16,734,499.34	\$ 14,649,806.00

⁴ - MassDEP's revised Project Approval Certificate dated 6/1/2017

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

Proposed Change Order (PCO) Log
and Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A
November 14, 2018

Open
Agreed Change
Not Approved / Closed
No Cost Change
Not Approved / Dispute
Void or Superseded

Contract Value: \$34,604,926.00
Contingency: \$1,730,246.30
Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Budget				PCO Reasoning				Net Available	Net Available as %
			Negotiated Value	GHD Rough Estimate	Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added	Error			
			Beginning Balance									
1	1001B	Transformer access road		\$ 30,000	\$ 30,000						\$1,730,246.30	
2	1002	Relocate gas line	\$2,220.00						\$ 2,220		\$1,730,246.30	100.0%
3	1003A	Electrical modifications	\$17,785.00		\$ 17,785						\$1,728,026.30	99.9%
4	1004	Preliminary treatment cleanout	\$743.00		\$ 743						\$1,710,241.30	98.8%
5	1005	Septage pipe roof penetration	\$3,000.00						\$ 3,000		\$1,709,498.30	98.8%
6	FO11	Drill and grout dowels at PT bldg	\$359.00						\$ 359		\$1,706,498.30	98.6%
7	1007	Potable water well pump power and control	\$12,404.00		\$ 12,404						\$1,706,139.30	98.6%
8	1006	Core FDs in PT bldg	\$1,966.00		\$ 1,966						\$1,693,735.30	97.9%
9	1008	AIS compliant pinch valve	\$4,889.00				\$ 4,889				\$1,691,769.30	97.8%
10	FO12A	Relocate block retaining wall	\$45,265.00		\$ 45,265						\$1,686,880.30	97.5%
11	9	Pipe vents in septage bldg	\$7,440.00				\$ 7,440				\$1,641,615.30	94.9%
12	8	Septage bldg main cleanout		\$ 750	\$ 750						\$1,634,175.30	94.4%
13	1009	Replace valves at clarifier 4	\$20,394.00				\$ 20,394				\$1,634,175.30	94.4%
14	46	Changes to EMH13 and electrical room	\$65,500.00						\$ 65,500		\$1,613,781.30	93.3%
15	35	Trench drains in garage	\$0.00	\$ -							\$1,548,281.30	89.5%
15A	35	Trench drains in garage	\$0.00								\$1,548,281.30	89.5%
15B	35	Trench drains in garage (vents)	\$6,636.00			\$ 6,636						
16	1011	Primary scum level sensor	\$0.00						\$ -		\$1,541,645.30	89.1%
17	1012	Main PS bypass changes		\$ 1,500					\$ 1,500		\$1,541,645.30	89.1%
18		Weather impacts		\$ -	\$ -						\$1,541,645.30	89.1%
19	1015	Gravity Thickener 2 concrete fill		\$ 4,000			\$ 4,000			\$ 4,000	\$1,541,645.30	89.1%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

Proposed Change Order (PCO) Log

and Project Funding Budget Status

General Contractor: Daniel O'Connell's Sons, Inc.

Contract No. 2016-05; GHD Job No. 8618922A

November 14, 2018

Open
Agreed Change
Not Approved / Closed
No Cost Change
Not Approved / Dispute
Void or Superseded

Contract Value: \$34,604,926.00

Contingency: \$1,730,246.30

Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Error	Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added			
20	53	PRB-MOD 7 & 15	\$0.00	\$ -						\$1,541,645.30	89.1%
21	43	Core and Link Seal	\$504.00			\$ 504				\$1,541,141.30	89.1%
22	1014	Demolish suspended ceiling	\$584.00		\$ 584					\$1,540,557.30	89.0%
23	46X	Reconfiguration of ductbank G-G - MOVED to PCO 14	\$0.00	\$ -						\$1,540,557.30	89.0%
24	1019	Cleanouts in chemical room	\$3,050.00		\$ 3,050					\$1,537,507.30	88.9%
25	1018	Firewall in chemical room	\$0.00		\$ -					\$1,537,507.30	88.9%
26		Buried fire alarm conduit in chemical room	\$4,240.00		\$ 4,240					\$1,533,267.30	88.6%
27	1021	Additional rebar at secondary clarifier 4		\$ 1,500		\$ 1,500				\$1,533,267.30	88.6%
28	64	GPR existing concrete	\$35,000.00		\$ 35,000					\$1,498,267.30	86.6%
29	1017	Relocate MW-105	\$9,444.00		\$ 9,444					\$1,488,823.30	86.0%
30	1022	Manhole covers		\$ 1,500		\$ 1,500				\$1,488,823.30	86.0%
31	74	Chemical room eyewash and water supply		\$ -				\$ -		\$1,488,823.30	86.0%
32	1025	Administration building changes	\$13,640.00					\$ 13,640		\$1,475,183.30	85.3%
33	1020	Gravity thickener supports		\$ 2,500		\$ 2,500				\$1,475,183.30	85.3%
34	1062	Remove and replace existing 8-inch scum line @ Sec Clar 4 (PCO 38 and 1062)		\$ 14,000	\$ 14,000					\$1,475,183.30	85.3%
35	1026	Chemical Room Floor		\$ 15,000	\$ 15,000					\$1,475,183.30	85.3%
36	1027	Filter bldg gate and valves	\$41,068.00					\$ 41,068		\$1,434,115.30	82.9%
37	1029	Storage Room ADB-129 window	\$763.00					\$ 763		\$1,433,352.30	82.8%
38	1030	Sludge pumping station roof	\$25,270.00		\$ 25,270					\$1,408,082.30	81.4%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A

November 14, 2018

Open
Agreed Change
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Void or Superseded

Contract Value: \$34,604,926.00
Contingency: \$1,730,246.30
Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
39	1031	Garage bathroom	\$0.00	\$ -					\$1,408,082.30	81.4%
40	1032	Admin/process building windows	\$19,260.00				\$ 19,260		\$1,388,822.30	80.3%
41	1035	Delete blower discharge valves		\$ (5,000)				\$ (5,000)	\$1,388,822.30	80.3%
42	105	ADB pull stations	\$1,770.00			\$ 1,770			\$1,387,052.30	80.2%
43	83	Details for lifting eyes	(\$9,515.00)					\$ (9,515)	\$1,396,567.30	80.7%
44	75R	Water supply size	\$7,012.00	\$ -		\$ 7,012			\$1,389,555.30	80.3%
45	76R	Emergency eyewash and shower	\$0.00			\$ -			\$1,389,555.30	80.3%
46	79	Flow Switches		\$ 5,000		\$ 5,000			\$1,389,555.30	80.3%
47	1037	Plant water system gate valves	\$28,670.00				\$ 28,670		\$1,360,885.30	78.7%
48	1036	Gravity thickener guard rails	(\$12,785.00)					\$ (12,785)	\$1,373,670.30	79.4%
49	82R1	Louver openings		\$ 10,000				\$ 10,000	\$1,373,670.30	79.4%
50	1039	Process Admin Bldg duct modifications	(\$878.00)					\$ (878)	\$1,374,548.30	79.4%
51	92	W05 window type		\$ -		\$ -			\$1,374,548.30	79.4%
52	1040	Glycol storage	\$1,150.00			\$ 1,150			\$1,373,398.30	79.4%
53	1038	Process Bldg. HVAC (west)	\$24,470.00			\$ 24,470			\$1,348,928.30	78.0%
54	93	Roof Openings - Admin. Bldg.	\$30,500.00			\$ 30,500			\$1,318,428.30	76.2%
55	1046	Water line - Process Bldg.		\$ 7,500		\$ 7,500			\$1,318,428.30	76.2%
56	1049	Slide Gates		\$ 6,000	\$ 6,000				\$1,318,428.30	76.2%
57	1047	Process Bldg. Roof Openings	\$25,130.00			\$ 25,130			\$1,293,298.30	74.7%
58	109	Toilet Carrier		\$ 20,000	\$ 20,000				\$1,293,298.30	74.7%
59	117	Chemical Building Gr.	\$1,840.00					\$ 1,840	\$1,291,458.30	74.6%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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November 14, 2018

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PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
60	2C	Vents for OWS	\$6,560.00			\$ 6,560			\$1,284,898.30	74.3%
61	113	Utility Coordination	\$13,980.00		\$ 13,980				\$1,270,918.30	73.5%
62	1050	Filter Bldg. Clean Out		\$ (5,000)				\$ (5,000)	\$1,270,918.30	73.5%
63	WCD1	Boiler Abatement	\$10,000.00		\$ 10,000				\$1,260,918.30	72.9%
64	1052	Vacuum Pump	\$845.00			\$ 845			\$1,260,073.30	72.8%
65	1054	Restroom Floor Drains	\$6,609.00		\$ 6,609				\$1,253,464.30	72.4%
66	146/147	Roof Drains	\$4,960.00		\$ 4,960				\$1,248,504.30	72.2%
67		Lead abatement at ceilings		\$ -	\$ -				\$1,248,504.30	72.2%
68	1058	Lab Plumbing Changes		\$ 4,000		\$ 4,000			\$1,248,504.30	72.2%
69	1059	IT Network Rack		\$ (1,000)				\$ (1,000)	\$1,248,504.30	72.2%
70	128	Bubblers in Admin bldg	(\$4,247.00)					\$ (4,247)	\$1,252,751.30	72.4%
71	1057	Aeration Basin 1 concrete repair		\$ 1,000	\$ 1,000				\$1,252,751.30	72.4%
72	1053	Chem PW		\$ 2,000		\$ 2,000			\$1,252,751.30	72.4%
73	89	Reloc. Plant Water in Process Building		\$ 3,500	\$ 3,500				\$1,252,751.30	72.4%
74	160	Recirc Line Chem Room Eyewash		\$ -	\$ -				\$1,252,751.30	72.4%
75	144 & 154	Chem & Filter Bldg. Plumbing Questions	\$5,095.00		\$ 5,095				\$1,247,656.30	72.1%
76	125	Chem and Filtr Bldg Electrical Questions		\$ 14,000		\$ 14,000			\$1,247,656.30	72.1%
77	1060	Aeration Basin Port Opening Height		\$ 1,500		\$ 1,500			\$1,247,656.30	72.1%
78	173	Existing Topping Slab Clarifiers 1,2, & 3		\$ (20,000)				\$ (20,000)	\$1,247,656.30	72.1%
79	162	South Elevation Downspout at Filter Building		\$ 1,000		\$ 1,000			\$1,247,656.30	72.1%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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General Contractor: Daniel O'Connell's Sons, Inc.
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November 14, 2018

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Contract Value: \$34,604,926.00
Contingency: \$1,730,246.30
Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
80	1061	Process/Admin Bldg Misc. Masonry		\$ 6,000		\$ 6,000			\$1,247,656.30	72.1%
81	1063	Existing Secondary Clarifiers Remedial Work		\$ 4,000	\$ 4,000				\$1,247,656.30	72.1%
82	1064	Security/Site Fence Location		\$ -			\$ -		\$1,247,656.30	72.1%
83	165	Chemical Day Tank Nameplate Info.	\$670.00				\$ 670		\$1,246,986.30	72.1%
84	157	Vent, Plumbing Conflict		\$ 1,000	\$ 1,000				\$1,246,986.30	72.1%
85	1066	CMU Brick Support Admin Windows		\$ 2,000		\$ 2,000			\$1,246,986.30	72.1%
86	177	Existing panel feeder intersection	\$14,982.00		\$ 14,982				\$1,232,004.30	71.2%
87	145	Garage Vent		\$ 1,500		\$ 1,500			\$1,232,004.30	71.2%
88	179	Prelim bldg downspout		\$ 6,000		\$ 6,000			\$1,232,004.30	71.2%
89	180	Drainage near primary settling basins		\$ 1,000				\$ 1,000	\$1,232,004.30	71.2%
90	194	Exterior walls at ADB116 and ADB117		\$ 10,000		\$ 10,000			\$1,232,004.30	71.2%
91	1082	Chemical room floor demo	\$7,970.00			\$ 7,970			\$1,224,034.30	70.7%
92	1072	Water heater and plumbing changes		\$ 5,000				\$ 5,000	\$1,224,034.30	70.7%
93	181	Process bldg drain to DMH3		\$ 8,000	\$ 8,000				\$1,224,034.30	70.7%
94	193	Masonry openings for door louvers and windows		\$ 10,000		\$ 10,000			\$1,224,034.30	70.7%
95	202	Trap primers in garage	\$3,106.00			\$ 3,106			\$1,220,928.30	70.6%
96	1076	Encase wall at UT access No. 2		\$ 5,000	\$ 5,000				\$1,220,928.30	70.6%
97	1075	Septage equipment walkway		\$ (3,000)				\$ (3,000)	\$1,220,928.30	70.6%
98	98	Delete toeboards at secondary clarifier	(\$10,777.00)	\$ -				\$ (10,777)	\$1,231,705.30	71.2%
99	203	Aeration wall and base slab		\$ 5,000	\$ 5,000				\$1,231,705.30	71.2%
100	61	OWS-4 Piping		\$ 1,000	\$ 1,000				\$1,231,705.30	71.2%
101	1078	Blower bldg floor slab		\$ 4,000	\$ 4,000				\$1,231,705.30	71.2%
102	1079	Grit chamber baffle demo		\$ 500	\$ 500				\$1,231,705.30	71.2%
103	164	Hangers and supports in chem and filtration bldg		\$ -					\$1,231,705.30	71.2%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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\$1,730,246.30

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Contract Value:

Contingency:

Construction

Budget:

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added	Error	Net Available	Net Available as %
104		HVAC controls (per 15985-001)	\$2,003.00					\$ 2,003		\$1,229,702.30	71.1%
105	1077	Admin bldg vestibule		\$ (2,000)						\$1,229,702.30	71.1%
106	205	Window sill existing conditions		\$ 3,000	\$ 3,000			\$ (2,000)		\$1,229,702.30	71.1%
107	182	Type SL mounting details	\$3,949.00		\$ 3,949					\$1,225,753.30	70.8%
108	1083	Prelim Treatment Influent Channel Fill		\$ 1,000		\$ 1,000				\$1,225,753.30	70.8%
109	206R2	Weir elevations	\$4,730.00			\$ 4,730				\$1,221,023.30	70.6%
110	1085	Sludge PS Access Hatch		\$ 1,500		\$ 1,500				\$1,221,023.30	70.6%
111	1086	Restroom north wall windows		\$ 1,000			\$ 1,000			\$1,221,023.30	70.6%
112	1088	Plant Water Chem Room 2		\$ 1,000	\$ 1,000					\$1,221,023.30	70.6%
113	NA	Aeration Basin Buttress Wall		\$ 7,000	\$ 7,000					\$1,221,023.30	70.6%
114	1065R	Chem bldg plumbing		\$ 2,000		\$ 2,000				\$1,221,023.30	70.6%
115	208	Sludge Pumping Station Suction Piping		\$ 5,000	\$ 5,000					\$1,221,023.30	70.6%
116	1090	Thickened Sludge Pump Truck Loading		\$ 8,000			\$ 8,000			\$1,221,023.30	70.6%
117	1092	Aeration basin guardrail swing gates	\$12,230.00				\$ 12,230			\$1,208,793.30	69.9%
118	1093	Building Receptacles		\$ 5,000				\$ 5,000		\$1,208,793.30	69.9%
119	1096	Collection Chamber Grating Support Beam		\$ 1,500		\$ 1,500				\$1,208,793.30	69.9%
120	1094	Exterior Process Building Overhead Doors		\$ 40,000			\$ 40,000			\$1,208,793.30	69.9%
121	1095	Utility Tunnel East End Wall		\$ -		\$ -				\$1,208,793.30	69.9%
122	226	Type PL fixture conductor size		\$ 12,000		\$ 12,000				\$1,208,793.30	69.9%
123	1098	Metal Lockers		\$ 12,000		\$ 12,000				\$1,208,793.30	69.9%
124	1099	Primary Clarifier Concrete Repair		\$ 3,000	\$ 3,000					\$1,208,793.30	69.9%
125	216	Secondary Clarifier Launder Repair		\$ -						\$1,208,793.30	69.9%
126	221	Aeration Basin Drain		\$ (70,000)				\$ (70,000)		\$1,208,793.30	69.9%
127	214	Utility Tunnel Access Layout		\$ -						\$1,208,793.30	69.9%
128	1100	Electrical room door ADB125A		\$ 7,000		\$ 7,000				\$1,208,793.30	69.9%
129	1105	Deletion of tools		\$ (300)			\$ (300)			\$1,208,793.30	69.9%
130	1102	Primary D-box Weirs and Gates		\$ 3,000	\$ 3,000					\$1,208,793.30	69.9%
131	1103	Plant Water Feed to Sludge Thickener No. 1		\$ 5,000		\$ 5,000				\$1,208,793.30	69.9%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
132	1104	Sludge thickener drainage		\$ 5,000			\$ 5,000		\$1,208,793.30	69.9%
133									\$1,208,793.30	69.9%
134									\$1,208,793.30	69.9%
135									\$1,208,793.30	69.9%
		TOTAL	\$521,453.00							

November 14, 2018

\$34,604,926.00
\$1,730,246.30
\$36,335,172.30

Contract Value:
Contingency:
Construction
Budget:

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Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

Change Management

General Contractor: Daniel O'Connell's Sons, Inc.

Contract No. 2016-05; GHD Job No. 8618922A

Periodic Update: October / November 2018

Construction Budget	\$	36,335,172
Initial Construction Contract	\$	34,604,926
Approved Change Orders*	\$	521,453
Unallocated Budget	\$	1,208,793

Construction Progress

Days Since June 26, 2017 Notice to Proceed	492	Construction Contract Value,	
Contract Duration	970	Including Change Orders	\$ 35,126,379.00
Days Remaining	478	Amount Earned to Date	\$ 17,163,924.99
Percent of Time Expended	51%	Percent of Value Completed	49%

Potential Change Orders (PCOs) vs Construction Budget

Requests for Information from DOC	234	No. of PCOs	132
Requests for Information from GHD	106	No. PCOs in Negotiation	58
Approved Change Orders	5	Potential Change Amount	\$ 223,000
Percent of Initial Construction Contract	1.51%	Percent of Initial Contract	0.64%

Contingency Management

Contingency - Percent of Initial Contract	5%	Contingency Amount	\$ 1,730,246
Percent of Contingency in Change Orders	30.1%	Change Orders to Date	\$ 521,453
Percent of Contingency in Potential Changes	13%	Potential Changes	\$ 223,000
Percent of Contingency Identified	43%	Total Changes Identified	\$ 744,000
Percent of Contingency Remaining	57%	Remaining Contingency	\$ 986,246



TOWN OF UXBRIDGE
WWTF BUILDING COMMITTEE
UXBRIDGE, MASSACHUSETTS 01569

MEETING SIGN IN SHEET
WEDNESDAY, November 13, 2018, 5:00 pm
BOS MEETING ROOM, 21 SOUTH MAIN STREET, UXBRIDGE, MA

INITIAL	NAME	AFFILIATION	ADDRESS	PHONE	EMAIL
<i>DM</i>	Dale Bangma	WWTF Building Committee			
<i>JA</i>	Joe Marchand	WWTF Building Committee			
<i>EO</i>	Eugene O'Rourke	WWTF Building Committee			
<i>DH</i>	Dan Hicks	WWTF Building Committee			
<i>WK</i>	William Kessler	WWTF Building Committee			
<i>BS</i>	Benn Sherman	Uxbridge DPW			bsherman@uxbridge-ma.gov
<i>PH</i>	Paul Hutnak	Uxbridge DPW			phutnak@uxbridge-ma.gov
<i>JK</i>	Jim Legg	Uxbridge DPW-Wastewater			jlegg@uxbridge-ma.gov
<i>AE</i>	Angie Ellison	Town Manager			aellison@uxbridge-ma.gov
<i>ST</i>	Sandy Tripp	GHD (Designer)			sandy.tripp@ghd.com
	Marc Drainville	GHD (Designer)			marc.drainville@ghd.com
	Laurie Toscano	Weston & Sampson (OPM)			toscanol@wseinc.com
<i>FW</i>	Frank Woodfall	Keville Enterprises			fwoodfall@keville.com
<i>PM</i>	Paul Macnevin	Weston & Sampson (OPM)			macnevip@wseinc.com